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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/071,867

DATE: 02/26/2002
TIME: 13:18:53

Input Set : A:\5294-000004 - Sequence Listing.txt
Output Set: N:\CRF3\02262002\J071867.raw

```
   1 <110> APPLICANT: CreaGene Inc.
   3 <120> TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
   4       NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
   6 <130> FILE REFERENCE: CreaGene-USA-1
C--> 8 <140> CURRENT APPLICATION NUMBER: US/10/071,867
C--> 8 <141> CURRENT FILING DATE: 2002-02-08
   8 <150> PRIOR APPLICATION NUMBER: KR 2001-6229
   9 <151> PRIOR FILING DATE: 2001-02-08
  11 <160> NUMBER OF SEQ ID NOS: 95
  13 <170> SOFTWARE: KopatentIn 1.71
  15 <210> SEQ ID NO: 1
  16 <211> LENGTH: 300
  17 <212> TYPE: DNA
  18 <213> ORGANISM: Artificial Sequence
  20 <220> FEATURE:
  21 <223> OTHER INFORMATION: SIV gag-100
  24 <400> SEQUENCE: 1
  25 agcccgagaa cattaaatgc ctgggtaaaa ttgatagagg aaaagaaatt tggagcagaa        60
  27 gtagtgccag gatttcaggc actgtcagaa ggttgcaccc cctatgacat taatcagatg       120
  29 ttaaattgtg tgggagacca tcaagcggct atgcagatta tcagagatat tataaacgag       180
  31 gaggctgcag attgggactt gcagcaccca caaccagctc cacaacaagg acaacttagg       240
  33 gagccgtcag gatcagatat tgcaggaaca actagttcag tagatgaaca aatccagtgg       300
  35                                                                         300
  38 <210> SEQ ID NO: 2
  39 <211> LENGTH: 300
  40 <212> TYPE: DNA
  41 <213> ORGANISM: Artificial Sequence
  43 <220> FEATURE:
  44 <223> OTHER INFORMATION: SIV gag-100/M
  47 <400> SEQUENCE: 2
  48 agtccaagaa cattaaatgc atgggtaaaa ttaatagaag aaaaaaaatt tggagcagaa        60
  50 gtagttccag gatttcaagc attatcagaa ggttgtactc catatgatat taatcaaatg       120
  52 ttaaattgtg taggagatca tcaagcagct atgcaaatta taagagatat tataaatgaa       180
  54 gaagctgcag attgggattt acaacatcca caaccagctc cacaacaagg acaattaaga       240
  56 gaaccttcag gatcagatat tgcaggaaca actagttcag tagatgaaca aattcaatgg       300
  58                                                                         300
  61 <210> SEQ ID NO: 3
  62 <211> LENGTH: 342
  63 <212> TYPE: DNA
  64 <213> ORGANISM: Artificial Sequence
  66 <220> FEATURE:
  67 <223> OTHER INFORMATION: SIV gag-114
  70 <400> SEQUENCE: 3
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 71 ccagtacaac aaataggtgg taactatgtc cacctgccat taagcccgag aacattaaat      60
 73 gcctgggtaa aattgataga ggaaaagaaa tttggagcag aagtagtgcc aggatttcag     120
 75 gcactgtcag aaggttgcac cccctatgac attaatcaga tgttaaattg tgtgggagac     180
 77 catcaagcgg ctatgcagat tatcagagat attataaacg aggaggctgc agattgggac     240
 79 ttgcagcacc cacaaccagc tccacaacaa ggacaactta gggagccgtc aggatcagat     300
 81 attgcaggaa caactagttc agtagatgaa caaatccagt gg                        342
 84 <210> SEQ ID NO: 4
 85 <211> LENGTH: 501
 86 <212> TYPE: DNA
 87 <213> ORGANISM: Artificial Sequence
 89 <220> FEATURE:
 90 <223> OTHER INFORMATION: SIV p27-167
 93 <400> SEQUENCE: 4
 94 ccagtacaac aaataggtgg taactatgtc cacctgccat taagcccgag aacattaaat      60
 96 gcctgggtaa aattgataga ggaaaagaaa tttggagcag aagtagtgcc aggatttcag     120
 98 gcactgtcag aaggttgcac cccctatgac attaatcaga tgttaaattg tgtgggagac     180
100 catcaagcgg ctatgcagat tatcagagat attataaacg aggaggctgc agattgggac     240
102 ttgcagcacc cacaaccagc tccacaacaa ggacaactta gggagccgtc aggatcagat     300
104 attgcaggaa caactagttc agtagatgaa caaatccagt ggatgtacag acaacagaac     360
106 cccataccag taggcaacat ttacaggaga tggatccaac tggggttgca aaaatgtgtc     420
108 agaatgtata acccaacaaa cattctagat gtaaaacaag ggccaaaaga gccatttcag     480
110 agctatgtag acaggttcta c                                               501
113 <210> SEQ ID NO: 5
114 <211> LENGTH: 450
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: SIV p27-150
122 <400> SEQUENCE: 5
123 ccagtacaac aaataggtgg taactatgtc cacctgccat taagcccgag aacattaaat      60
125 gcctgggtaa aattgataga ggaaaagaaa tttggagcag aagtagtgcc aggatttcag     120
127 gcactgtcag aaggttgcac cccctatgac attaatcaga tgttaaattg tgtgggagac     180
129 catcaagcgg ctatgcagat tatcagagat attataaacg aggaggctgc agattgggac     240
131 ttgcagcacc cacaaccagc tccacaacaa ggacaactta gggagccgtc aggatcagat     300
133 attgcaggaa caactagttc agtagatgaa caaatccagt ggatgtacag acaacagaac     360
135 cccataccag taggcaacat ttacaggaga tggatccaac tggggttgca aaaatgtgtc     420
137 agaatgtata acccaacaaa cattctagat                                      450
140 <210> SEQ ID NO: 6
141 <211> LENGTH: 324
142 <212> TYPE: DNA
143 <213> ORGANISM:. Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: SIV env-108
149 <400> SEQUENCE: 6
150 acttctactt ggtttggctt taatggaact agagcagaaa atagaactta tatttactgg      60
152 catggtaggg ataataggac tataattagt ttaaataagt attataatct aacaatgaaa     120
154 tgtagaagac caggaaataa gacagtttta ccagtcacca ttatgtctgg attggttttc     180
156 cactcacaac caatcaatga taggccaaag caggcatggt gttggtttgg aggaaaatgg     240
158 aaggatgcaa taaaagaggt gaagcagacc attgtcaaac atcccaggta tactggaact     300
```

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   Input Set : A:\5294-000004 - Sequence Listing.txt
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160 aacaatactg ataaaatcaa tttg                                        324
163 <210> SEQ ID NO: 7
164 <211> LENGTH: 324
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: SIV env-108/M
172 <400> SEQUENCE: 7
173 actagcactt ggttcggctt caacggaact agggcagaga acagaactta catctactgg   60
175 catggtaggg acaaccggac gatcatcagc ctgaacaagt actacaacct caccatgaaa  120
177 tgcaggagac caggaaataa gacagtgcta ccagtcacca tcatgtccgg gttggtcttc  180
179 cactcacagc ccatcaatga caggcccaag caggcctggt gttggttcgg aggcaagtgg  240
181 aaggatgcca taaggaggt gaagcagacc attgtcaagc atcccaggta cactggaact  300
183 aacaacactg acaagatcaa tttg                                        324
186 <210> SEQ ID NO: 8
187 <211> LENGTH: 294
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: HIV-1 env-98
195 <400> SEQUENCE: 8 .
196 ttaaatggca gtctagcaga agaagacata gtaattagat ctgaaaattt cacagacaat   60
198 gctaaaacca taatagtaca gctaaatgaa tctgtagtaa ttaattgtac aagacccaac  120
200 aacaatacaa gaagaaggtt atctatagga ccaggagag cattttatgc aagaagaaac  180
202 ataataggag atataagaca agcacattgt aacattagta gagcaaaatg gaataacact  240
204 ttacaacaga tagttataaa attaagagaa aaatttagga ataaaacaat agcc         294
207 <210> SEQ ID NO: 9
208 <211> LENGTH: 294
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: HIV-1 env-98/M
216 <400> SEQUENCE: 9
217 ttaaatggca gtctagcaga agaagacata gtaattagat ctgaaaattt cacagacaat   60
219 gctaaaacca taatagtaca gctaaatgaa tctgtagtaa ttaattgtac aagacccaac  120
221 aacaatacaa gaagaaggtt atctatagga ccaggagag cattttatgc aagaagaaac  180
223 ataataggag atataagaca agcacattgt aacattagta gagcaaaatg gaataacact  240
225 ttacaacaga tcgtgatcaa gcttcgggag aagttccgga acaagacgat cgcc         294
228 <210> SEQ ID NO: 10
229 <211> LENGTH: 249
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: HIV-1 env-83
237 <400> SEQUENCE: 10
238 ttaaatggca gtctagcaga agaagacata gtaattagat ctgaaaattt cacagacaat   60
240 gctaaaacca taatagtaca gctaaatgaa tctgtagtaa ttaattgtac aagacccaac  120
242 aacaatacaa gaagaaggtt atctatagga ccaggagag cattttatgc aagaagaaac  180
244 ataataggag atataagaca agcacattgt aacattagta gagcaaaatg gaataacact  240
```

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246 ttacaacag                                                            249
249 <210> SEQ ID NO: 11
250 <211> LENGTH: 213
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: HIV-1 env-71
258 <400> SEQUENCE: 11
259 ctaaatgaat ctgtagtaat taattgtaca agacccaaca acaatacaag aagaaggtta     60
261 tctataggac cagggagagc attttatgca agaagaaaca taataggaga tataagacaa    120
263 gcacattgta acattagtag agcaaaatgg aataacactt tacaacagat agttataaaa    180
265 ttaagagaaa aatttaggaa taaaacaata gcc                                 213
268 <210> SEQ ID NO: 12
269 <211> LENGTH: 381
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: PV 2-127
277 <400> SEQUENCE: 12
278 gcgctgacag ccgtagagac aggggccacc aacccattgg tgccttcaga cacggtacaa     60
280 actcgtcacg tcatccaaaa gcggacgcgg tcggagtcta cggttgagtc tttcttcgca    120
282 agaggagctt gtgtggccat tattgaagtg ataatgatg ctccaacaag gcgtgccagt     180
284 aaattatttt cagtctggaa gataacttac aaggacaccg ttcagttaag acgtaagttg    240
286 gagttcttta catattcaag gtttgacatg gagttcacct ttgtggttac atccaattat    300
288 accgatgcaa acaatgggca cgcactgaat caagtttacc agataatgta cataccacct    360
290 ggggcaccga tccctggcaa g                                              381
293 <210> SEQ ID NO: 13
294 <211> LENGTH: 354
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: PV 2-118
302 <400> SEQUENCE: 13
303 gcttgtgtgg ccattattga agtggataat gatgctccaa caaggcgtgc cagtaaatta     60
305 ttttcagtct ggaagataac ttacaaggac accgttcagt taagacgtaa gttggagttc    120
307 tttacatatt caaggtttga catggagttc acctttgtgg ttacatccaa ttataccgat    180
309 gcaaacaatg ggcacgcact gaatcaagtt taccagataa tgtacatacc acctggggca    240
311 ccgatccctg gcaagcggaa tgattacaca tggcaaacgt catctaaccc atcagtgttt    300
313 tacacttacg gggcacctcc agctagaata tcagtgccct acgtgggcat tgcc           354
316 <210> SEQ ID NO: 14
317 <211> LENGTH: 330
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: PV 3-110
325 <400> SEQUENCE: 14
326 cacgtagtcc aacgacgcag caggtcagag tccacaatag aatcattctt cgcacgcggg     60
328 gcgtgcgtcg ctattattga ggtggacaat gaacaaccaa ccacccgggc acagaaacta    120
330 tttgccatgt ggcgcattac atacaaagat acagtgcagt tgcgccgtaa gttggagttt    180
```

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Input Set : A:\5294-000004 - Sequence Listing.txt
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```
332 ttcacatact ctcgttttga catggaattc accttcgtgg taaccgccaa cttcaccaac      240
334 gctaataatg ggcatgcact caaccaggtg taccagataa tgtacatccc cccagggggca     300
336 cccacaccaa agtcatggga cgactacact                                       330
339 <210> SEQ ID NO: 15
340 <211> LENGTH: 480
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
345 <223> OTHER INFORMATION: HCV core-160
348 <400> SEQUENCE: 15
349 atgagcacaa atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg tcgcccacaa       60
351 gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg      120
353 ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga      180
355 aggcgacagc ctatccccaa ggctcgccaa cccgagggta ggacctgggc tcagcccggg      240
357 tacccttggc ccctctatgg caatgagggt ctgggatggg caggatggct cctgtcaccc      300
359 cgcggctctc ggcctagttg gggccccaca dacccccggc gtaggtcgcg taatttgggt      360
361 aaggtcatcg atactctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc      420
363 ggcgcccccc tagggggcgt tgccagggcc ttggcacatg gtgtccggct tctggaggac      480
365                                                                        480
368 <210> SEQ ID NO: 16
369 <211> LENGTH: 300
370 <212> TYPE: DNA
371 <213> ORGANISM: Artificial Sequence
373 <220> FEATURE:
374 <223> OTHER INFORMATION: HCV core-100
377 <400> SEQUENCE: 16
378 atgagcacaa atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg tcgcccacaa       60
380 gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg      120
382 ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga      180
384 aggcgacagc ctatccccaa ggctcgccaa cccgagggta ggacctgggc tcagcccggg      240
386 tacccttggc ccctctatgg caatgagggt ctgggatggg caggatggct cctgtcaccc      300
388                                                                        300
391 <210> SEQ ID NO: 17
392 <211> LENGTH: 399
393 <212> TYPE: DNA
394 <213> ORGANISM: Artificial Sequence
396 <220> FEATURE:
397 <223> OTHER INFORMATION: PV 2.3-131
400 <400> SEQUENCE: 17
401 gcgctgacag ccgtagagac aggggccacc aacccattgg tgccttcaga cacggtacaa       60
403 actcgtcacg tcatccaaaa gcggacgcgg tcggagtcta cggttgagtc tttcttcgca      120
405 agaggagctt gtgtggccat tattgaagtg gataatgatg ctccaacaag gcgtgccagt      180
407 aaattatttt cagtctggaa gataactgaa ttcgagtcca caatagaatc attcttcgca      240
409 cgcggggcgt gcgtcgctat tattgaggtg gacaatgaac aaccaaccac ccgggcacag      300
411 aaactatttg ccatgtggcg cattacatac aaagatacag tgcagttgcg ccgtaagttg      360
413 gagttttttca catactctcg ttttgacatg gaattcacc                            399
416 <210> SEQ ID NO: 18
417 <211> LENGTH: 336
418 <212> TYPE: DNA
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VERIFICATION SUMMARY   DATE: 02/26/2002
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L:8 M:270 C: Current Application Number differs, Replaced Current Application No
L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date